

METHOD FOR ENHANCING ANIMAL GROWTH
AND CELL PROLIFERATION BY ELIMINATION OF THE
CYCLIN-DEPENDENT KINASE INHIBITOR FUNCTION OF P27^{Kip1}

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Abstract of the Disclosure

This invention provides a recombinant non-human animal lacking the cyclin-dependent kinase inhibitor function of p27^{Kip1} and the method for producing the same. This invention also provides a method for increasing the proliferation of the thymic T-cells by treating the thymic T-cells to eliminate the cyclin-dependent kinase inhibition function of p27^{Kip1}. This invention also provides a method for increasing the proliferation of hematopoietic cells which comprises treating the hematopoietic cells to eliminate the cyclin-dependent kinase inhibitor function of p27^{Kip1}, thereby increasing the proliferation of the hematopoietic cells. This invention further provides a method for alleviating symptoms of an AIDS patient comprising steps of: a) collecting the lymphocytes or other cells from an AIDS patient; b) treating the collected cells to eliminate the cyclin-dependent kinase inhibition function of p27^{Kip1}; and c) re-introducing the treated cells to the AIDS patient.